[3565]

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION OF PRODUCT TRADE MAME : [DUST N° SHINE CHEMICAL FAMILY: SOLVENT CLEANER DATE PREPARED : 1-1-98 DOT CLASS: COMPOUND, CLEANING

SECTION 11 - HAZARDOUS INBREDIENTS

HAZARDOUS COMPONENTS OSHA PEL ACSIM TLV OTHER LIMITS X

MINERAL SEAL OIL 5 MG/M3 5 MG/M3 64742-38-9

SECTION 313 - SUPPLIER MOTIFICATION
THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT
TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY
PLANNING & COMMUNITY RIGHT TO KNOW ACT OF 1986 & OF 40 CFR 372:
1 TCAS B23 CHEMICAL NAME X BY MGT
W/A

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT :> 388 F

SPECIFIC GRAVITY (H28=1) : .8

SOLUBILITY IN WATER : MEGLIGIBLE

APPEARANCE : CLEAR COLORLESS LIQUID

ODOR : MINT

VAPOR PRESSURE (##Hg) : (.91

VAPOR DEMSITY (Air=1) :> AIR

EVAPORATION RTE (8utyl Act=1): (.81

BECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT I > 248 F

EXITHEUISHING MEDIA : REGULAR FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

MEAR SELF CONTAINED FLAL-FACE BREATHING APPARATUS

DRUMS MAY BUILD PRESSURE AND RUPTURE UNDER EXTREME HEAT.

UNUSUAL HAZARDS

CONCENTRATED VAPORS CAN BE IGNITED BY EXTREME HEAT OR ANY
IGNITION SOURCES. DO NOT CUT OR WELD DRUM.

SECTION V - REACTIVITY DAYA STABILITY

STABLE
CONDITIONS TO AVOID : STABLE
CONDITIONS TO AVOID : WILL NOT OCCUR
CONDITIONS TO AVOID : NONE
INCOMPATIBLE MATERIALS : STRONG ACIDS AND OXIDIZERS

HATARDOUS DECOMPOSITION OR BY-PRODUCTS CD, CQ2 SECTION VI - HEALTH HAIARDS DATA

THRESHOLD LINIT VALUE : NOT ESTABLISHED

CARCINGGENICITY : NO /NO /NO
IARC MOMOGRAPHS : NO
OSHA REGULATED : NO
MEALTH HAIARDS ACUTE/CHRONIC :

OVEREIPOSURE AND TOILCITY DEPEND UPON DURATION OF
EXPOSURE. SYMPTOMS OF OVEREXPOSURE INCLUDE
DILLIMESS, NAUSEA, HEADACHE AND EVEN LOSS OF
CONSCIQUINESS.

EMERSENCY FIRST AID PROCEDURES:

EMERGENCY FIRST AID PROCEDURES:
INHALATION:
REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER
ARTIFICIAL RESPIRATION. CALL A PHYSICIAN.
INGESTION:
DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN IMMEDIATELY.

EYE CONTACT:
FLUSH EYES IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES.
CALL A PHISICIAN.
SXIN CONTACT:
FLUSH WITH PLENTY OF WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. MASH WITH PLENTY OF SOAP AND WATER FOR 15 MINUTES.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE. STEPS TO BE TAKEN
IN CASE MATERIAL IS RELEASED OR SPILLED:
ELIMINATE ALL IGNITION SOURCES. CONTAIN SPILL AND PUMP TO RECOVER
SHALL SPILLS MAY BE MOPPED UP. FLUSH AREA WITH MATER.
WASTE DISPOSAL METHOD
ISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL
REGULATIONS.
PRECAUTIONS TO TAKE IN HANDLING & STORAGE:
STORE IN COOL PLACE AWAY FROM ALL IGNITION SOURCES
KEEP CONTAINER CLOSED WHEN NOT IN USE.
OTHER PRECAUTIONS:

SECTION VIII - CONTROL MEASURES
RESPIRATORY PROTECTION : NOME REO'D W/ ADEQUATE VENTING
VENTILATION : EQUIVALENT TO DUTDOORS
PROTECTIVE SLOVES : RECOMMENDED
OTHER PROTECTIVE MEASURES :
AS REQUIRED TO LIMIT SKIN CONTACT. WASH HANDS THOROUGHLY
AFTER USE. USE EXPLOSION PROOF MOTOR FOR RECHANICAL VENTING.

EMERGENCY PHONES: 888-535-5853

DIBCLAIMER: A.B.C. COMPOUNDING BELIEVES THAT THE INFORMATION CONTAINED ON THIS MATERIAL SAFETY DATA SHEET IS ACCURATE. THE SUGGESTED PROCEDURES ARE BASED ON EXPERIENCE AS OF DATE OF PUBLICATION. THEY ARE NOT NECESSARILY ALL INCLUSIVE NOR FILLY ADEQUATE IN EVERY CIRCUMSTANCE. ALSO, THE SUGGESTIONS SHOULD NOT BE CONFUSED WITH, NOR FOLLOWED IN VIOLATION OF APPLICABLE LAWS, REGULATIONS RULES OR INSURANCE REQUIREMENTS.

Easco Aluminum Drawn Tube Division P.O. Box 177 Winton, North Carolina 27986 (919) 358-5811

Number 91-01 Revised February, 1991 Page 1 of 3

Easco Aluminum

MATERIAL SAFETY DATA SHEET

SECTION I: Identification

CHEMICAL NAME: Atumirum Chemical Abstract Service Number (CAS): 7429-90-5

FORMULA: AL

TRADE NAME: Wrought Aluminum Alloy Extrusions, Mill Finish; 1xxx Alloys,

3xxx Alloys, and 6xxx Alloys

DOT Identification: N/A

Hazard Rating: HEALTH = 0 (Megligible) FIRE = 1 (Slight) REACTIVITY = 1 (Slight)

SECTION II: CHEMICAL COMPONENTS

"Aluminum alloy extrusions typically contain aluminum and one or more of the ingredients listed below.

| | cte | | OSHA PEL(mg/m3) | | ACGIH TLY(mg/m3) | |
|------------|----------------------|--------------------|-----------------|-------------|------------------|------|
| Ingredient | CAS <u>Number</u> | % By Weight | Fune | <u>Dust</u> | <u>Fume</u> | Dust |
| Aluminum | 7429-90-5 | >95.0 | 5 | 15 | 5 | 10 |
| Chromium | 7440-47-3 | <0.1* | | 1 | | 0.5 |
| Copper | 7440-50-8 | <0.3 | 1 | 1 | 0.2 | 1 |
| Iron . | 7439-89-6 | <0.8 | | | | |
| Magnesium | 7439-95-4 | <1.2 | | 10 | 1 | 10 |
| Manganese | 7439-96-5 | <0.2 ** | 1 | 5 (Ceiling) | 1 | 5 |
| Silicon | 7440-21-3 | <1.0 | 10 | 10 | | 10 |

^{*}Alloy 6061 may contain from 0.1% to 0.2% Chromium which would be subject to SARA Section 313 reporting requirements.

SECTION III: Physical Data

Physical state: Solid (under normal conditions)

Appearence: Metallic silver or grey

Odor: None

Boiling Point: N/A

Melting Point: 1000-1200°F or 538-649°C

Specific Gravity: 2.7(Water=1)
Solubility in Water: Hone

Evaporation Rate: N/A Vapor Pressure: N/A

^{**}Alloy 3003 may contain from 1.0% to 1.2% Manganese which would be subject to SARA Section 313 reporting requirements.

SECTION IV: FIRE and EXPLOSION DATA

FLASH POINT: N/A

AUTOIGNITION: N/A

In case of fire, use Class B extinguishing agent or dry sand. Do NOT use any halogenated extinguishing agents.

Moisture trapped in molten aluminum may cause an explosion. If aluminum extrusions are melted, make certain no moisture or mater is present on external surfaces or in any cavities. Damp aluminum dust, fines, or small chips may spontaneously heat and liberate Hydrogen to form explosive mixtures.

SECTION V: REACTIVITY DATA

Stability: Stable

HAZARDOUS POLYMERIZATION: will not occur

INCOMPATIBLE MATERIALS: Ammonium Mitrate

Ammonium Mitrate Halogenated Compounds Sodium Hydroxide Strong Oxidizers Water (when meiting)

Acids and alkalis in contact with Aluminum may penerate explosive mixtures of Hydrogen. Consult National Fire Protection Association literature for more specific information.

SECTION VI: HEALTH HAZARD DATA

COUTES OF ENTRY:

Inhalation (Applies to dusts, fumes, fines, etc. when

fabricating and/or welding.)

HEALTH HAZARDS:

Aluminum alloy extrusions may produce dust an fines which are considered nuisance particulates.

Welding or machining of aluminum alloy extrusions may generate dusts and/or fumes which may cause irritation of the eyes, nose, and throat. Ozone may be produced as a by-product of welding or plasma arc cutting. Prolonged exposure to ozone may result in headache, hausea, and pulmonary edema.

Generally, if Aluminum exposures are kept below the OSHA Permissible Exposure Limits and the Threshold Limit Values, the Components present in the alloy should present no health concern.

CARCINOGENICITY: NTP = NO IARC = NO OSHA = NO

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation of eyes, mose, and throat.

EMERGENCY and FIRST AID PROCEDURES: If small particles or dust are in eyes, immediately flush eyes with water for at least 15 minutes. If particle is embedded in eye, immediately seek professional medical attention for foreign body removal.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing upper respiratory and lung diseases.

SECTION VII: PERSONAL PROTECTIVE EQUIPMENT

VENTILATION: Adequate ventilation and local exhaust should be provided if PELS

or TLVs are exceeded.

EYE PROTECTION: Appropriate eye protection should be worn when grinding, sawing, welding, etc.

SXIN PROTECTION: Aluminum extrusions undergo no visual changes when heated to temperatures which can cause burns

on contact. Protective gloves are recommended when handling extrusions.

RESPIRATORY PROTECTION: A WIOSH-approved respirator should be morn when PELS or ILVs are, or may be exceeded.

SECTION VIII: DISPOSAL PROCEDURES

Aluminum scrap should be collected for recycling. Any other disposal should be done in accordance with applicable federal, state, and local laws.

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Easco Aluminum

KEYSTONE PLASTICS, INC MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT NAME: POLYPROPYLENE

DATE OF ISSUE: 6/17/98

PAGE 1 OF 2 MSDS #: FTPP001 PRODUCT CODE: 1102K

IDENTIFICATION

MANUFACTURER'S NAME KEYSTONE PLASTICS, INC. TELEPHONE NUMBER

908-561-1300

ADDRESS

345) SO. CLINTON AVE SO. PLAINFIELD N.J. 07080

TRADE NAME:

POLYPROPYLENE HOMOPOLYMER

CHEMICAL NAME

POLYPROPYLENE

FILAMENT CAS REGISTRY NUMBER

CHEMICAL FORMULA-(C3HS)X

9003-07-0 CHEMICAL FAMILY

POLYMER

OTHER

THIS MSDS COVERS ALL FILAMENT GRADES OF HOMOPOLYMER

POLYPROPYLENE MANUFACTURED BY KEYSTONE PLASTICS, INC.

HAZARDOUS INGREDIENTS П

COMPONENT OSHA POO AGGIRTIV

THIS PRODUCT IS NOT A HAZARDOUS MATERIAL UNDER OSHA'S HAZARD

COMMUNICATION STANDARD .29CFR1910.1200, PLEASE READ THIS MSDS CAREFULLY BEFORE USING THIS PRODUCT.

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT

SPECIFIC GRAVITY (H20=1)

N/A

.90

VAPOR PRESSURE N/A

MELTING POINT(DEG.F) 248.338

VAPOR DENSITY(AIR=1)

PERCENT VOLATILE(VOL,%)

N/A

NEGLIGIBLE EVAPORATION RATE(BUTYL ACETATE=1)

SOLUBILITY IN WATER

NEGLIGIBLE

APPEARANCE AND ODOR

SLIGHT PARAFFINIC ODOR

FIRE AND EXPLOSION DATA FLASH POINT

N/A

FLAMMABLE LIMITS

LOWER: N/A

HIGHER: N/A

EXTINGUISHING MEDIA

DRY CHEMICAL, CO2 FOAM, WATER, AND HALON SPECIAL FIRE FIGHTING PROCEDURES

AVOID INHALATION OF VAPORS, MUST WEAR SELF CONTAINED BREATHING APPARATUS

WHEN FIRE FIGHTING IN COMBINED AREAS...

UNUSUAL FIRE AND EXPLOSION HAZARDS

FIRE MAY PRODUCE IRRITATING GASES AND DENSE SMOKE

REACTIVITY DATA

STABILITY STABLE CONDITIONS TO AVOID

N/A

INCOMPATIBILITY (MATERIALS TO AVOID)

N/A

HAZARDOUS DECOMPOSITION PRODUCTS

CO.CO2

HAZARD POLYMERIZATION

CONDITIONS TO AVOID

N/A

KEYSTONE PLASTICS, INC MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT NAME: POLYPROPYLENE

DATE OF ISSUE: 10/14/93

PAGE 2 OF 2 MSDS #: FTPP001

PRODUCT CODE: 1102K

VI; HEALTH HAZARD DATA

CARCINOGENICITY? NIF?

IARC MONOGRAPHS?

OSHA REGULATED?

NO

NO NO ACUTE EFFECTS OF OVEREXPOSURE

INHALATION?

NEGLIGIBLE HAZARD AT ROOM TEMPERATURE. IRRITATING VAPORS TO RESPIRATORY SYSTEM MAY FORM WHEN POLYMER IS

PROCESSED AT HIGH TEMPERATURES

SKIN CONTACT?

SKIN CONTACT WITH MOLTEN OR HEATED POLYMER CAN CAUSE

SERIOUS BURNS.

EYE CONTACT?

VAPORS MAY BE FORMED WHEN POLYMER IS PROCESSED AT HIGH

TEMPERATURES, THESE VAPORS MAY BE IRRITATING TO THE EYE.

INGESTION? N/A

EMERGENCY FIRST AID PROCEDURES

INHALATION

REMOVE VICTIM TO FRESH AIR, CONSULT PHYSICIAN IF

IRRITATION OF RESPIRATORY PASSAGES OCCURS.

SKIN CONTACT

FOR SERIOUS BURNS, GET IMMEDIATE MEDICAL ATTENTION. IN

CASE IF SKIN CONTACT WITH HOT POLYMER, IMMEDIATELY

IMMERSE IN OR FLUSH CLEAN WITH COLD WATER

EYE CONTACT

FLUSH WITH WATER, CONSULT PHYSICIAN IF IRRITATION OR

OTHER SYMPTOMS OCCUR.

INGESTION

CONSULT PHYSICIAN

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

FILAMENT ON THE FLOOR COULD PRESENT A SERIOUS SLIPPING PROBLEM, GOOD HOUSEKEEPING MUST BE MAINTAINED AT ALL TIMES TO AVOID THIS HAZARD.

SWEEP, SHOVEL, OR VACUUM MATERIAL INTO CLEAN CONTAINERS

WASTE DISPOSAL METHOD

TRANSFER TO AN APPROVED DISPOSAL AREA IN ACCORDANCE WITH FEDERAL,

STATE, AND LOCAL REGULATIONS.

VIIL SPECIAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION

NIOSH APPROVED RESPIRATORS RECOMMENDED WHEN HANDLING HOT MATERIAL

PROTECTIVE CLOTHING

GLOVES REQUIRED WHEN HANDLING HOT MATERIAL

EYE PROTECTION

WEAR SAFETY GLASSES

VENTILATION

VENTILATE AS NEEDED WHEN HANDLING HOT MATERIAL

OTHER PROTECTIVE EQUIPMENT

N/A

IX. PRECAUTIONS FOR SAFE HANDLING AND USE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

N/A

OTHER PRECAUTIONS

N/A

LEGAL DISCLAIMER:

THE INFORMATION PROVIDED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE RELIABLE. HOWEVER, THE CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL, AND THE SUITABILITY OF THE PRODUCT ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Material Safety Data Sheet

IDENTITY: YARN

MANUFACTURED'S NAME

JONES COMPANIES, LIMITED

ADDRESS

PO BOX 367.

HUMBOLDT, TN 38343

EMERGENCY TELEPHONE NUMBER: 901 784-2832 201 704-2932

OTHER TELEPHONE NUMBERS:

SIGNATURE OF PERSON RESPONSIBLE FOR PRIPARATION:

LEE NORMAN, INDUSTRIAL HYGIENIST

SECTION ONE

PRODUCT IDENTIFICATION

PRODUCT NAME:

YARN

APPEARANCE: FIBER

GRAZAN KYIAN

COLOR: VARIOUS

FLAMMABILITY HAZARD: 0 MINIMAL

ODOR: ODORLESS

REACTIVITY HAZARD: 0 MINIMAL

CASRN: PROPRIETARY MIXTURE

CHEMICAL DESCRIPTION: COTTON

(COULD ALSO CONTAIN RAYON, ACRYLIC, AND POLYESTER FIBERS.

SECTION TWO:

HAZARDOUS INGREDIENTS

(Frincipal basardoms Component(s)

Threshold Limit Value (Units)

Cotton Yarn could contain cotton dust. Exposure to cotton dust is established for various manufacturing groups.

YARN AND WASHING

200 ug/m3

WASTE HOUSE TEXTILE MILL OPERATIONS

500 ug/m3

SLASHING AND WEAVING

750 ug/m3

WASTE RECYCLING AND GARNETTING

1000 ug/m3

*OSHA Standard 29 CFR 1910.1043 and 1910.1000

Note: Cotton dust is dust present in the air during handling or processing of raw cotton. No other operations are covered by the OSHA standard, i.e., including waste spinning.

SECTION THREE:

PHYSICAL/CHEMICAL CHARACTERISTICS

Bolling Point: Decomposes AMOR BRESSURE: -00000 Solubility In Water: Insoluble

Specific Gravity: N/A Holting Point: Decomposes Evaporation Rate: N/A

SECTION FOUR: FIRE AND EXPLOSION DATA

etase foint: cottom fiber is combostible at 360 c to 420 c extinguishing media: all aperoted extinguishing media. Special pire etgeting procedures: N/A utusual pire and exposici erzako: mesp anai from etrong oxidizres

SECTION FIVE: PHYSICAL HAZARDS

STABILITI UNSTABLE STABLE X X IRCOMBATIBILITI (MATERIALE TO AVOID) STRONG OXIDIZERS BAZARDOUS DECOMPOSITION FRANCISCI: MORE BAZARDOUS FOLTMERIZATION: WILL NOT OCCUR

SECTION SIX: HEALTH HALARDS

TERRESHOLD LIMIT VALUE: SEE FROST SIDE

SIGNS AND SIMPTOKE OF EXPOSURE:

1. ACUTE EXCESSORE: COSTON DUST MAY CAUSE ACUTE OR DELAYED MING INJURY.

2. OFFICE EXPOSURE: EXCESSIVE AND/OR LONG TERM EXPOSURE MAY LEAD TO A RISK OF BROWGEITIS.

NEDICAL CONDITIONS GENERALLY ASSENVATED BY EXPOSURE.

EMPSISENA AND ASTENA - DECREASED FULNOMARY FUNCTIONS.

CHEMICAL LISTED AS CARCINOMEN OR POTENTIAL CARCINOMEN; NO NATIONAL TOXICOLOGY PROMENW: NO L.A.R.C.MONOGRAPHS; NO DEMA: NO

EMERGENCY AND FIRST AND PROCEDURES: NOWE REQUIRED
PROSLEMS WITS: INSALATION - TRS, EXES - NO, SXIN - NO, INSESTICA - NO.

SECTION SEVEN: SPECIAL PROTECTION INFORMATION

RESPIRATORI PROTECTION: IF OSBA'S ACTION LEVELS ARE EXCEPDED FOR COTTON DUST, USE REPROVED RESPIRATORS. VENTILATION: LOCAL ECHADER: THE PROTECTIVE GLOVES: NO OTHER PROTECTIVE CLOTHING OR EQUIRERY: NO

SECTION EIGHT: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECALTIONS TO BE TAKER IN BREDLING AND STORAGE: WORK AREAS SELVED REDAIN INST FREE IN POSSIBLE.
OTHER PRECADITIONS: COTTON FIBERS ARE NAMEDIALS.

WASTE DISPOSAL METEODS: DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL REQUIREMENTS.